Sl. No	Description of Item		No	L	B	D	QTY	Rate/Unit	Amount
	Area weightage 8%	86.80							
	Total	**1171.80**							
26	Vaccum de - watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator , HOM of machinery, screed vibratory, Power Floater , blade and disc etc., with all lead and lift.P.177, I. No.22.7								
	Site Cleaning(Nothern Side)		1	58.00	32.00		1856.00		
	All Round Building (Back Side)		1	38.60	8.6+2.8/2		220.02		
	Southern Side		1	48.20	4.00		192.80		
	Western Side		1	29.00	4.00		116.00		
							2384.82	**97.20**	**231804.50**
	Basic rate	90.00						**Sqm**	
	Area weightage 8%	7.20							
	Total	**97.20**							
27	Providing groove cutting for width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery , including cost of blade, coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidential charges as per drawing and as per specification. (for concrete pavement)P.178, I.								
			1	29.00	4.00		2500.00		
							2500.00	**81.00**	**202500.00**
	Basic rate	75.00						**Rmt**	
	Area weightage 8%	6.00							
	Total	**81.00**							
28	Providing and Supplying of Air handling units of GSS powder coated sheet metal cabinet type Double skin Recirculatory type 40-45 mm thick,Thermal break,modular construction.Air handling units shall be complete with Blower, TEFC motor,fan motor drive with Pre filters, DX coil 6 row section of copper coil with aluminium fins,Mist eleminator with access doors and accessories including, View glass, View lamp, limit switch for door (CSU - 01, 7000								
	Auditoium Hall		2				2		-
							2	**646718.80**	**1293437.60**
								Nos	
29	Providing and Supplying of Air handling units of GSS powder coated sheet metal cabinet type Double skin Recirculatory type 40-45 mm thick,Thermal break,modular construction.Air handling units shall be complete with Blower, TEFC motor,fan motor drive with Pre filters, DX coil 6 row section of copper coil with aluminium fins,Mist eleminator with access doors and accessories including, View glass, View lamp, limit switch for door (CSU - 02, 4200 CFM, 30 mm Static) (Approved Rates)								
	2nd Floor		1				1		
							1	**473572.40**	**473572.40**
								Nos	

Sl. No	Description of Item	No	L	B	D	QTY	Rate/Unit	Amount
30	Providing and Supplying of Air handling units of GSS powder coated sheet metal cabinet type Double skin Recirculatory type 40-45 mm thick,Thermal break,modular construction.Air handling units shall be complete with Blower, TEFC motor,fan motor drive with Pre filters, DX coil 6 row section of copper coil with aluminium fins,Mist eleminator with access doors and accessories including, View glass, View lamp, limit switch for door (CSU - 03, 3500 CFM, 30 mm Static)							
	2nd Floor	1				1		
						1	**399364.00**	**399364.00**
							Nos	
31	Providing and Supplying of Air cooled out door condensing units comprising of semi -hermetic / hermetic reciprocating/scrool compressors with matching air cooled condenser provided with necessary controls. (8.5 TR for CSU's)							
		6				6		
						6	**291200.00**	**1747200.00**
							Nos	
32	Providing and Supplying of Air cooled out door condensing units comprising of semi -hermetic / hermetic reciprocating/scrool compressors with matching air cooled condenser provided with necessary controls. (8.5 TR for CSU's) (Approved Rates)							
		4				4		
						4	**198800.00**	**795200.00**
							Nos	
33	Providing and Supplying of 1 TR Hi Wall Split Unit for Green Rooms (Approved Rates)							
		2				2		
						2	**77000.00**	**154000.00**
							Nos	
34	Providing and Supplying of Copper refrigerant piping with insulation with supports (Suction Line) (Approved Rates)							
		1	120.00			120.00		
						120.00	**1820.00**	**218400.00**
							Mtr	
35	Providing and Supplying of Copper refrigerant piping with insulation with supports (Liquid Line) (Approved Rates)							
		1	120.00			120.00		
						120.00	**1680.00**	**201600.00**
							Mtr	
36	Providing and Supplying of PVC Drain Piping for CSU's (Approved Rates)							
		1	50.00			50.00		
						50.00	**714.00**	**35700.00**
							Mtr	
37	Providing and Supplying of Expansion Valve & Drier Kit for CSU's (Approved Rates)							
		10				10.00		
						10.00	**25200.00**	**252000.00**
							Nos	
38	Providing and Supplying of Ready made Frame for Outdoor (Approved Rates)							

Sl. No	Description of Item	No	L	B	D	QTY	Rate/Unit	Amount
		2				2.00		
						2.00	**2380.00**	**4760.00**
							Nos	
39	Providing and Supplying of Additional of Refrigerant R22 Freon Gas (Approved Rates)							
		30				30.00		
						30.00	**1960.00**	**58800.00**
							Kgs	
40	Providing and Supplying of Linear Bar grille made out of Aluminium Powder Coated (Approved Rates)							
		1	5.00	2.00		10.00		
						10.00	**17500.00**	**175000.00**
							Sqm	
41	Providing and Supplying of Collar damper made out of GI. with powder coated (Approved Rates)							
		1	1.25	2.00		2.50		
						2.50	**10080.00**	**25200.00**
							Sqm	
42	Providing and Supplying of GI. Volume control dampers manual operated (Approved Rates)							
		1	2.00	2.00		4.00		
						4.00	**18200.00**	**72800.00**
							Sqm	
43	Providing and Supplying of Fire Dampers with Fusible Links rated for 72° C (Approved Rates)							
		1	2.00	1.00		2.00		
						2.00	**25200.00**	**50400.00**
							Sqm	
44	Providing and Supplying of Fire retardant flexible connections CSU (Approved Rates)							
		4				4.00		
						4.00	**25200.00**	**100800.00**
							Nos	-
45	Providing and Supplying of Ele.controll panel inter lock with CSUs and condenser unit (For CSU - 01, 7000 CFM, 50 mm Static) (Approved Rates)							
		2				2.00		
						2.00	**114800.00**	**229600.00**
							Set	
46	Providing and Supplying of Ele.controll panel inter lock with CSUs and condenser unit (For CSU - 02, 4200 CFM, 30 mm Static) (Approved Rates)							
		1				1		
						1	**103600.00**	**103600.00**
							Set	
47	Providing and Supplying of Ele.controll panel inter lock with CSUs and condenser unit (For CSU - 03, 3500 CFM, 30 mm Static) (Approved Rates)							
		1				1		
						1	**103600.00**	**103600.00**
							Set	

Sl. No	Description of Item	No	L	B	D	QTY	Rate/Unit	Amount
48	Providing and Supplying of Electrical cabling between condenser & CSUs For CSU - 01, 7000 CFM, (Panel to CSU & Panel to Outdoor)) (Approved Rates)							
		2				2		
						2	**89600.00**	**179200.00**
							Set	
49	Providing and Supplying of Electrical cabling between condenser & CSUs (For CSU - 02, 4200 CFM, 30 mm Static, (Panel to CSU & Panel to Outdoor) (Approved Rates)							
		1				1		
						1	**78400.00**	**78400.00**
							Set	
50	Providing and Supplying of Electrical cabling between condenser & CSUs For CSU - 03, 3500 CFM, 30 mm Static, (Panel to CSU & Panel to Outdoor) (Approved Rates)							
		1				1		
						1	**81200.00**	**81200.00**
							Set	
51	Providing and Supplying of Ms supports for condenser unit with 2 coats of paints (Approved Rates)							
		1000				1000		
						1000	**308.00**	**308000.00**
							Kgs	
52	Fabricating, supplying and erection of …Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for …….Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom …..mm, top….mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended.7 meters - Top 75mm and bottom 145 mm dia							
						9.00	**14040.00**	**126360.00**
							Nos	
53	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Single Arm Bracket with 1000mm Standard 40/50MM dia							
						9.00	**1919.00**	**17271.00**
							Nos	
54	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm							
						350.00	**140.40**	**49140.00**
							Mtrs	

Sl. No	Description of Item	No	L	B	D	QTY	Rate/Unit	Amount
55	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II LED Streetlight 65watts								
		Nos					12.00	18720.00	224640.00
56	LED Post Top Lantern GARDEN.Supply of LED Post Top Lantern with system ... wattage, housing & frame shall be of powder coated, die cast aluminum, diffuser with high density polyethylene IP65 EPDM Gasket. Life 50000 Hrs. @ L70 shall be conforming to IS 10322/Part 5/ Section 5 @ 230V. 5 years Warranty against any manufacturing defect working under standard electrical condition LED Post Top Lantern with 24 watts								
							7.00	15930.00	111510.00
								Nos	
57	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100-125Amps								
							1.00	9915.00	9915.00
								Nos	
58	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.40-63Amps TPN								
							2.00	1936.00	3872.00
								Nos	
59	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm								
							7.00	263.00	1841.00
								Mtrs	

Sl. No	Description of Item	No	L	B	D	QTY	Rate/Unit	Amount
60	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG							
						35000.00	**0.33**	**11550.00**
							Sqcms	
61	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.							
						1.00	**4586.00**	**4586.00**
							Nos	
62	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed							
						9.00	**4199.00**	**37791.00**
							Nos	
63	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV 40mm							
						3.00	**345.00**	**1035.00**
							Mtrs	
64	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.Using 32mm dia G.I.pipe							
						3.00	**893.00**	**2679.00**
							Nos	
65	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.							
						16.00	**176.00**	**2816.00**
							Nos	
66	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.1.5 sqmm							
						100.00	**18.60**	**1860.00**
							Mtrs	
67	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.6 sqmm to 16 sqmm							
						350.00	**10.80**	**3780.00**
							Mtrs	
68	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)							
						200.00	**78.00**	**15600.00**
							Mtrs	

~~52~~ 69	Conveying the excavated debries and over burden earth etc to a lead 20 kms distances by using private vehicles this including the cost of loading and inloading charges etc							
	Qty. vide Item No.1+2+3					914.30	113.40	103681.62
	Loading and unloading I.No.17.1			62.20			Cum	
	for Haulage(surface road Rs. 2.0 T/Km)							
	(density of debris 1.28 t/cum)							
	for 20kms =20x2x1.28			51.20				
				113.40				
			Total	113.40				
53	PMC charges							200000.00
54	**Miscellaneous and rounding off**						LS	3090.69
							TOTAL AMOUNT	20000000.00
	(RUPEES TWO CRORE ONLY)							

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017 and approved rates.

Assistant Engineer
Yelahanka project
BBMP

09/10/17
Assistant Executive Engineer
Yelahanka project
BBMP

Executive Engineer
Yelahanka project
BBMP

Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Administrative Approval
Accorded For 200.00 lakhs only
Head of A/C P2652
CER NO :..... Dt:16.2.2018

E.E. (Project) 16/2/18

Technical Sanction
Accorded For 200.00 lakhs
Head of A/C P2652
CER NO : 243 Dt:.. 10/17

[TA] CE (YNK)